

**SUPERCONDUCTING MAGNET DIVISION**  
**ENVIRONMENTAL MANAGEMENT PROGRAM**  
**FY 2002**

**Submitted by:** M. Gaffney SMD EMS Management Representative

**Date:** June, 2002

Revision: A

**1. Objective(s):**

- As part of the Division's support of the Self-Assessment program, to maintain compliance with applicable environmental protection requirements and permits. ([FY02 Critical Outcome](#), ES&H Supporting Assessment Measures and objective 3.1.1.1).
- Implement pollution prevention/waste minimization practices that eliminate, minimize or mitigate environmental impacts. ([FY02 Critical Outcome](#), objective 3.2.2.1)
- Division shall maintain an excellent level of work planning, authorization and implementation ([FY02 Critical Outcome](#), objective 2.1) to ensure environmental issues are properly addressed.
- Initiate a Waste Reduction Program.
- Manage legacy environmental issues (Facility Support Project).

**2. Target(s):**

- Evaluate a minimum of one pollution prevention opportunity and implement as deemed appropriate.
- Perform and document the weekly inspections of 90-Day Accumulation area.
- Disposition 100% of all EMS audit findings.
- Greater than 90% of operations performed using proper work planning and controls.
- Develop waste management metrics and properly dispose of legacy/expired/no longer used inventories.
- Close or transfer to a Laboratory Level Management System all level 1, 2 and 3 Facility Support Project items

**3. Environmental Performance Indicator(s):**

- Annual Air Emission Estimate/log book entries
- Tier I inspection results.
- 90 Day Accumulation Area inspection results
- Percentage of Phase II Process Evaluation actions completed.
- Work Planning and Control Assessment (as part of the Divisional Self-Assessment Program).
- Waste Control Form summaries.
- [Facility Review Project Database](#)

**4. Program Description:**

Superconducting Magnet Division (SMD) operations include Electronic Assembly, Mechanical Assembly, Tinning, Cryogenic Systems Maintenance and Staff Shops operations. These operations include the use of solders, epoxies, oils, cutting fluids and cleaning operations that use hazardous materials that must be disposed of properly. Hood and vacuum systems used in these operations which were originally considered permitted sources by the New York State Department of Environmental Conservation (NYS DEC) are now classified as trivial sources under the BNL site wide [Title V Air Emission permit with New York State](#) (Note that the magnet coil coating operation is a permitted source but is not in operation). The Facility Review Project (FRP) is a site-wide program that identified, tracked and manages historical and/or legacy environmental issues. These issues have been dispositioned as being incorporated into an existing site environmental program, identified as requiring no further action or have corrective actions developed. SMD does not actively manage these issues. When work is proposed on SMD facilities, which may impact these issues, the division insures that the

appropriate subject area manager is informed and pollution prevention and clean-up opportunities are evaluated. This environmental management program and associated operational controls are instituted to manage operations in accordance with applicable regulatory requirements and to evaluate feasibility of pollution prevention opportunities that eliminate or reduce the generation of these wastes. The responsibility for implementing these tasks lies within the SMD's Production, Electrical, Magnetic Testing support groups and the ESH&Q staff. The program plan extends through FY02 and is in effect until superceded.

**5. Potential Environmental Impact(s):**

- Land
- Air

**6. Significant Aspect:** (see table of "Criteria for Significant Aspects" for description of letter designation)

- Hazardous and Regulated Industrial Waste
- Atmospheric Emissions
- Storage and Use of Chemicals
- Legacy Issues – Facility Review Project

**7. Legal and Other Requirements:**

- Hazardous Waste Management
- Non-radioactive Airborne Emissions

**8. Operational Controls:** See Associated Operational Control Forms

- [AM-522-EAO](#)
- [AM-524-SSO](#)
- [AM-525-MAO](#)
- [AM-527-SSP](#)
- [AM-530-CSM](#)
- Legacy Issues –Facility Review Project
- Relevant SBMS Subject Areas

**9. Budget:**

- Operating Budget
- EMS Budget

10. Structure, Authorities, Responsibilities		
Tasks	Person Responsible	Completion Dates
<b>Corrective Action:</b> See Phase II Corrective Action Tracking Database.	SMD ECR	Completed, No new Corrective Actions in FY02
<b>Assessment, Prevention and Control (APC):</b> See Phase II APC Tracking Database.	SMD ECR	11/1/02
<b>Pollution Prevention:*</b> See Phase II Pollution Prevention Tracking Database.	SMD ECR	09/30/02
<b>Disposition Priority 1, 2 &amp; 3 FRP issues</b>	FRP Project Manager/ SMD ES&H Coordinator/SMD ECR	09/30/02
<b>Disposition of All Audit Finding</b>	SMD EMS Management Rep.	09/30/02

\*To be considered in a prioritized fashion

Approved:

Signature on File

7/2/02

Michael Harrison

Date

Superconducting Magnet Division Head